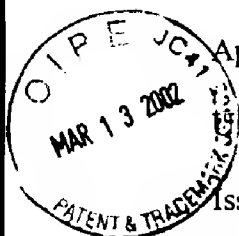


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Application for Reissue of:

U.S. Patent No. 5,993,543

Issued: November 30, 1999

Applicant: Masaki Aoki et al.

Serial No.: 08/890,577

For: METHOD OF PRODUCING PLASMA DISPLAY  
PANEL WITH PROTECTIVE LAYER OF AN  
ALKALINE EARTH OXIDE

CONSENT OF ASSIGNEE

Assistant Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Matsushita Electric Industrial Co. Ltd. of Japan, the Assignee of the entire right, title and interest of U.S. Patent No. 5,993,543 by virtue of assignment recorded in the U.S. Patent Office hereby consents to the reissue application executed by the inventors of said patent.

Respectfully submitted

MATSUSHITA ELECTRIC INDUSTRIAL  
CO., LTD.

Dated: December 26, 2001

By:

H. Kitagawa  
Hiromasa Kitagawa  
General Manager, IP Development Center  
Authorized Signing Officer

Title:



<b>REISSUE APPLICATION DECLARATION BY THE ASSIGNEE</b>		Docket Number (optional) NAK1-AY33ar				
<p>I hereby declare that:</p> <p>My residence and mailing address and citizenship are stated below next to my name.</p> <p>I am authorized to act on behalf of the following assignee: <u>Matsushita Electric Industrial Co., Ltd.</u></p> <p>and the title of my position with said assignee is: _____</p> <p>The entire title to the patent identified below is vested in said assignee.</p>						
<table style="width: 100%;"><tr><td style="width: 40%; text-align: right;">Name of Patentee(s)</td><td style="width: 60%; text-align: left;">Additional Inventors on Separate Sheet</td></tr><tr><td colspan="2">Masaki Aoki, Hideo Torii, Eiji Fujii, Mitsubishi Ohtani, Takashi Inami, Hiroyuki Kawamura, Hiroyoshi Tanaka,</td></tr></table>			Name of Patentee(s)	Additional Inventors on Separate Sheet	Masaki Aoki, Hideo Torii, Eiji Fujii, Mitsubishi Ohtani, Takashi Inami, Hiroyuki Kawamura, Hiroyoshi Tanaka,	
Name of Patentee(s)	Additional Inventors on Separate Sheet					
Masaki Aoki, Hideo Torii, Eiji Fujii, Mitsubishi Ohtani, Takashi Inami, Hiroyuki Kawamura, Hiroyoshi Tanaka,						
Patent Number 5,993,543	Date of Patent November 30, 1999					
Title of Invention <b>METHOD OF PRODUCING PLASMA DISPLAY PANEL WITH PROTECTIVE LAYER OF AN ALKALINE EARTH OXIDE</b>						
<p>I believe said patentee(s) to be the original, first and sole/joint inventor(s) of the subject matter which is described and claimed in said patent, for which a reissue patent is sought on the invention entitled <u>METHOD OF PRODUCING PLASMA DISPLAY PANEL WITH PROTECTIVE LAYER OF AN ALKALINE EARTH OXIDE</u></p> <p>the specification of which</p> <p><input checked="" type="checkbox"/> is attached hereto.</p> <p><input type="checkbox"/> was filed on _____ as reissue application number _____ and was amended on _____ (If applicable)</p> <p>I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.</p> <p>I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.</p> <p>I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)</p> <p><input type="checkbox"/> by reason of a defective specification or drawing.</p> <p><input checked="" type="checkbox"/> by reason of the patentee claiming more or less than he had the right to claim in the patent.</p> <p><input type="checkbox"/> by reason of other errors.</p> <p>At least one error upon which reissue is based is described as follows: The claims contain terms that were not required to distinguish over the art of record, such as "charge."</p> <p style="text-align: center;">[Attach additional sheets, if needed.]</p> <p>All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant.</p>						

**REISSUE DECLARATION BY ASSIGNEE**

Additional Inventors:

Ryuichi Murai

Yasuhisa Ishikura

Yutaka Nishimura

Katsuyoshi Yamashita

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

<b>REISSUE APPLICATION DECLARATION BY THE ASSIGNEE</b>		Docket Number (Optional) <b>NAK1-AY33ar</b>	
I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith. Name(s) _____ Registration Number _____			
<b>Joseph W. Price, Reg. No. 25,124; Albin H. Gess, Reg. No. 25,726; Michael J. Moffatt, Reg. No. 39,304;</b>			
<b>Gordon E. Gray, III, Reg. No. 42,602; Bradley D. Blanche, Reg. No. 38,387; James F. Kirk, Reg. No. 29,398</b>			
Correspondence Address: Direct all communications about the application to: <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;">           Customer Number _____             OR            Type Customer Number Here         </div> <div style="border: 1px solid black; padding: 5px; text-align: center; width: 150px;">             Place Customer Number Bar Code Label Here           </div> </div>			
<input type="checkbox"/> Firm or Individual Name	<b>Joseph W. Price, PRICE AND GESS</b>		
Address	<b>2100 S.E. Main St., Ste. 240</b>		
Address			
City	<b>Irvine</b>	State	<b>CA</b>
Country	<b>USA</b>		
Telephone	<b>949/261-8433</b>	Fax	<b>949/261-9072</b>
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.			
Full name of person signing (given name, family name)			
Signature	<i>H. Kotagawa</i> <small>Hideo Kotagawa General Manager, IT Development Center Authorized Signing Officer</small>		Date <b>26/December/2001</b>
Address of Assignee			
<b>1006, Oaza Kadoma, Kadoma Shi, Osaka-fu, Japan</b>			
Patentee		Citizenship	
<b>Masaki Aoki</b>		<b>Japan</b>	
Residence/Mailing Address			
<b>1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan</b>			
Patentee		Citizenship	
<b>Hideo Torii</b>		<b>Japan</b>	
Residence/Mailing Address			
<b>1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan</b>			
<input checked="" type="checkbox"/> Additional Patentees are named on separately numbered sheets attached hereto.			

Full name of third inventor, if any

**Eiji Fujii**

Residence

**Osaka-fu, Japan**

Citizenship

**Japan**

Post Office Address

**1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan**

Full name of fourth inventor, if any

**Mitsuhiro Ohtani**

Residence

**Osaka-fu, Japan**

Citizenship

**Japan**

Post Office Address

**1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan**

Full name of fifth inventor, if any

**Takashi Inami**

Residence

**Osaka-fu, Japan**

Citizenship

**Japan**

Post Office Address

**1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan**

Full name of sixth inventor, if any

**Hiroyuki Kawamura**

Residence

**Osaka-fu, Japan**

Citizenship

**Japan**

Post Office Address

**1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan**

Full name of seventh inventor, if any

**Hiroyoshi Tanaka**

Residence

**Osaka-fu, Japan**

Citizenship

**Japan**

Post Office Address

**1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan**

Full name of eighth inventor, if

**Ryuichi Murai**

Residence

**Osaka-fu, Japan**

Citizenship

**Japan**

Post Office Address

**1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan**

Full name of ninth inventor, if any

**Yasuhisa Ishikura**

Residence

**Osaka-fu, Japan**

Citizenship

**Japan**

Post Office Address

**1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan**

Full name of tenth inventor, if any

**Yutaka Nishimura**

Residence

**Osaka-fu, Japan**

Citizenship

**Japan**

Post Office Address

**1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan**

Full name of seventh inventor, if any  
**Katsuyoshi Yamashita**

Residence  
**Osaka-fu, Japan**

Citizenship  
**Japan**

Post Office Address  
**1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan**

Full name of eighth inventor, if

Eighth inventor's signature

Date

Residence

Citizenship

Post Office Address

Full name of ninth inventor, if any

Ninth inventor's signature

Date

Residence

Citizenship

Post Office Address

Full name of tenth inventor, if any

Tenth inventor's signature

Date

Residence

Citizenship

Post Office Address

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant: Masaki Aoki et al.

Application No.: 08/890,577 Filed: July 9, 1997

Entitled: METHOD OF PRODUCING PLASMA DISPLAY PANEL WITH PROTECTIVE LAYER OF AN  
ALKALINE EARTH OXIDE

Matsushita Electric Industrial Co., Ltd., a Japanese corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of an undivided part interest

in the patent application identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 8349, Frame 0080, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

26/December/2001

Date

H. Kitagawa

H. Kitagawa Signature

Development Center

Assistant Managing Officer

Typed or printed name

Title





## MANUAL OF PATENT EXAMINING PROCEDURE

PTO/SB/54 (12-97)  
 Approved for use through 9/30/00. OMB 0851-0033  
 Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>REISSUE APPLICATION BY THE ASSIGNEE, OFFER TO SURRENDER PATENT</b>		Docket Number (Optional) NAK1--AY33ar
This is part of the application for a reissue patent based on the original patent identified below.		
Name of Patentee(s): Masaki Aoki et al.		
Patent Number 5,993,543	Date Patent Issued November 30, 1999	
Title of Invention	METHOD OF PRODUCING PLASMA DISPLAY PANEL WITH PROTECTIVE LAYER OF AN ALKALINE EARTH DIOXIDE	
<p>_____ is the assignee of the entire interest in the original patent.</p> <p>I offer to surrender the original patent.</p> <p><input checked="" type="checkbox"/> A certificate under 37 CFR 3.73(b) is attached.</p> <p>I am authorized to act on behalf of the assignee.</p> <p>Matsushita Electric Industrial Co., Ltd.</p>		
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application, any patent issued thereon, or any patent to which this declaration is directed.		
Name of assignee Matsushita Electric Industrial Co., Ltd.		
Signature of person signing for assignee <i>H. Kishigawa</i>	Date 26/December/2001	
Typed or printed name and title of person signing for assignee H. Kishigawa Chief, IP Development Center Authorized Signing Officer		

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RECEIVED

APR 23 1997

PRICE GESS & UBELL

APRIL 16, 1997

PRICE, GESS & UBELL  
JOSEPH W. PRICE, ESQ.  
2100 S.E. MAIN ST., STE. 250  
IRVINE, CA 92714



PTAS

UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



\*100358828A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/16/1996

REEL/FRAME: 8349/0080  
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
AOKI, MASAKI

DOC DATE: 12/06/1996

ASSIGNOR:  
TORII, HIDEO

DOC DATE: 12/06/1996

ASSIGNOR:  
FUJII, EIJI

DOC DATE: 12/06/1996

ASSIGNOR:  
OHTANI, MITSUHIRO

DOC DATE: 12/06/1996

ASSIGNOR:  
INAMI, TAKASHI

DOC DATE: 12/06/1996

ASSIGNOR:  
KAWAMURA, HIROYUKI

DOC DATE: 12/06/1996

ASSIGNOR:  
TANAKA, HIROYOSHI

DOC DATE: 12/06/1996

ASSIGNOR:  
MURAI, RYUICHI

DOC DATE: 12/06/1996

ASSIGNOR:  
ISHIKURA, YASHUHISA

DOC DATE: 12/06/1996

ASSIGNOR:  
NISHIMURA, YUTAKA

DOC DATE: 12/06/1996

ASSIGNOR:  
YAMASHITA, KATSUYOSHI

DOC DATE: 12/06/1996

ASSIGNEE:  
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.  
1006, OAZA KADOMA  
KADOMA-SHI, OSAKA-FU, JAPAN

SERIAL NUMBER: 08766030  
PATENT NUMBER:

FILING DATE: 12/16/1996  
ISSUE DATE:

MAURICE CARTER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

## ASSIGNMENT

WHEREAS, we, Masaki AOKI, Hideo TORII, Eiji FUJII,  
 Mitsuhiro OHTANI, Takashi INAMI, Hiroyuki KAWAMURA,  
 Hiroyoshi TANAKA, Ryuichi MURAI, Yasuhisa ISHIKURA,  
 Yutaka NISHIMURA, and Katsuyoshi YAMASHITA  
 citizens of Japan, have invented certain new and useful  
 improvements in an PLASMA DISPLAY PANEL SUITABLE FOR  
 HIGH-QUALITY DISPLAY AND PRODUCTION METHOD

for which we have executed application for Letters Patent of the  
 United States,

WHEREAS, MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., a  
 corporation of Japan, having a principal place of business at 1006,  
 Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan, is desirous of obtaining  
 the entire right, title and interest in, to and under the said  
 improvements and the said application,

NOW, THEREFORE, in consideration of the sum of One Hundred Yen  
 (100 ¥) to us in hand paid, and other good and valuable  
 consideration, the receipt of which is hereby acknowledged, we,  
 Masaki AOKI, Hideo TORII, Eiji FUJII, Mitsuhiro OHTANI,  
 Takashi INAMI, Hiroyuki KAWAMURA, Hiroyoshi TANAKA,  
 Ryuichi MURAI, Yasuhisa ISHIKURA, Yutaka NISHIMURA,  
 and Katsuyoshi YAMASHITA

have sold, assigned, transferred and set over, unto said MATSUSHITA  
 ELECTRIC INDUSTRIAL CO., LTD., its successors, legal  
 representatives and assigns, the entire right, title and interest  
 in, to and under said improvements, and said application and all  
 divisions, renewals and continuations thereof, and all Letters  
 Patents of the United States, which may be granted thereon and all  
 reissues and extensions thereof, and all priority rights under the  
 International Convention for the Protection of Industrial Property  
 for every country of the Union, and all applications for Letters  
 Patents which may hereafter be filed for said improvements in any  
 country or countries foreign to the United States, and all Letters  
 Patents which may be granted for said improvements in any country  
 or countries foreign to the United States, and any official of any  
 country or countries foreign to the United States, whose duty it is  
 to issue patents, on applications as aforesaid, to issue all  
 Letters Patents for said improvements to said MATSUSHITA ELECTRIC  
 INDUSTRIAL CO., LTD., its successors, legal representatives and  
 assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the  
 entire interest herein assigned, and that we have not executed, and  
 will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communi-  
 cate to said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its

successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand this 6th  
day of December, 1996.

Masaki Aoki  
Masaki AOKI

IN TESTIMONY WHEREOF, I hereunto set my hand this 6th  
day of December, 1996.

Hideo Torii  
Hideo TORII

IN TESTIMONY WHEREOF, I hereunto set my hand this 6th  
day of December, 1996.

Eiji Fujii  
Eiji FUJII

IN TESTIMONY WHEREOF, I hereunto set my hand this 6th  
day of December, 1996.

Mitsuhiro Ohtani  
Mitsuhiro OHTANI

IN TESTIMONY WHEREOF, I hereunto set my hand this 6th  
day of December, 1996.

Takashi Inami  
Takashi INAMI

IN TESTIMONY WHEREOF, I hereunto set my hand this 6th  
day of December, 1996.

Hiroyuki Kawamura  
Hiroyuki KAWAMURA

IN TESTIMONY WHEREOF, I hereunto set my hand this 6th  
day of December, 1996.

Hiroyoshi Tanaka  
Hiroyoshi TANAKA

IN TESTIMONY WHEREOF, I hereunto set my hand this 6th  
day of December, 1996.

Ryuichi Murai  
Ryuichi MURAI

IN TESTIMONY WHEREOF, I hereunto set my hand this 6th  
day of December, 1996.

Yasuhisa Ishikura  
Yasuhisa ISHIKURA

IN TESTIMONY WHEREOF, I hereunto set my hand this 6th  
day of December, 1996.

Yutaka Nishimura  
Yutaka NISHIMURA

IN TESTIMONY WHEREOF, I hereunto set my hand this 6th  
day of December, 1996.

Katsuyoshi Yamashita  
Katsuyoshi YAMASHITA

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_\_  
day of \_\_\_\_\_, 199 .

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_\_  
day of \_\_\_\_\_, 199 .

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_\_  
day of \_\_\_\_\_, 199 .

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_\_  
day of \_\_\_\_\_, 199 .